

Attorney Docket No. 0553-0518

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In Re Application of: )  
)  
Daisuke KUMAKI et al ) "Express Mail" Mailing Label No. EV 829841834  
) Date of Deposit September 15, 2006  
Serial No.: Not Assigned )  
) I hereby certify that this correspondence is being  
Filed: Herewith ) deposited with the United States Postal Service  
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Int. Application No: PCT/JP2005/009313 ) under 37 CFR1.10 on the date indicated above  
) and is addressed to: Commissioner for Patents,  
Intl. Filing Date: May 17, 2005 ) P.O. Box 1450, Alexandria, VA 22313-1450  
) Name: ARMANDO CHING  
) (typed or printed)  
Art Unit: )  
) Signature [Handwritten Signature]  
For: LIGHT EMITTING ELEMENT AND LIGHT )  
EMITTING DEVICE )

**INFORMATION DISCLOSURE STATEMENT**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

Pursuant to 37 C.F.R. §1.97, Applicant hereby calls the Examiner's attention to documents listed on the attached form, which documents may be material to the examination of this application. Pursuant to 37 CFR §1.98(a)(2)(i) copies of cited US patent and US patent application publications are not submitted herewith.

The family of JP 10-270172 cited herein includes:  
US Patent No. 6,013,384

The family of JP 11-251067 cited herein includes:  
EP Patent No. 0 948 063 A2  
US Patent Application Publication No. US 2001/0046611 A1

The family of JP 11-329748 cited herein includes:  
US Patent No. 6,107,734

The family of JP 2003-272860 cited herein includes:  
EP Patent No. 1 351 558 A1  
US Patent Application Publication No. US 2003/0189401 A1

The family of JP 2005-166637 cited herein includes:  
EP Patent No. 1 530 245 A2  
US Patent Application Publication No. US 2005/0098207 A1

The family of US 2004/0227460 A1 cited herein includes:  
EP Patent No. 1 478 025 A2

No inference should be drawn that the attached list sets forth a comprehensive investigation of the prior art, that any or all are pertinent to the invention, or that any apparatus disclosed is equivalent to the subject invention.

The citation of the above-discussed documents is not to be construed as an assertion that more pertinent art could not possibly be in existence. Citation of any document herein is not to be construed as an admission that any subject matter disclosed in the document is necessarily within the inventive field of endeavor, that any disclosure is necessarily prior in time to a particular date which may be relevant to the instant patent application, and/or that any disclosure is otherwise necessarily prior art with respect to the instant invention.

Applicant also respectfully reserves the right to later set forth how the instant invention is distinguished over the

10/593193  
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disclosure of any document or other art, including the disclosure of those documents discussed herein, that may be cited by the Examiner in rejecting a claim in the instant patent application.

A first office action, notice of allowance or issue fee notification has not been received in this case, so Applicant does not believe that a fee is due. However, if any such fee is required, please charge our Deposit Account No. 50/1039.

Respectfully submitted,



Mark J. Murphy

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LIST OF PUBLICATIONS  
CITED BY APPLICANT

Atty Docket No.  
0553-0518

Serial No.  
Not Assigned

Applicant  
Daisuke KUMAKI et al

Filing Date  
Herewith

Group

## US PATENT DOCUMENTS

*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME		
	5,849,403	12/15/98	Aoki et al		
	6,013,384	01/11/00	Kido et al		
	6,107,734	08/22/00	Tanaka et al		
	US 2001/ 0046611 A1	11/29/01	Kido et al		
	US 2003/ 0127967 A1	07/10/03	Tsutsui et al		
	US 2003/ 0189401 A1	10/09/03	Kido et al		
	US 2003/ 0218166 A1	11/27/03	Tsutsui		
	US 2004/ 0027059 A1	02/12/04	Tsutsui		
	US 2004/ 0150333 A1	08/05/04	Tsutsui		
	US 2004/ 0227460 A1	11/18/04	Liao et al		
	US 2005/ 0098207 A1	05/12/05	Matsumoto et al		

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IAP9/Rec'd PCT/PTO 15 SEP 2006

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	English Abstract	English Translation
	JP 09-063771	03/07/97	Japan	X	
	JP 10-270172	10/09/98	Japan		
	JP 11-251067	09/17/99	Japan		
	EP 0 948 063 A2	10/06/99	EPO		
	JP 11-307264	11/05/99	Japan	X	
	JP 11-329748	11/30/99	Japan		
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	EP 1 478 025 A2	11/17/04	EPO		
	EP 1 530 245 A2	05/11/05	EPO		
	JP 2005- 166637	06/23/05	Japan		

**OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS**

(Include name of author (in CAPITAL LETTERS), title of article or item (book, magazine, journal, serial, symposium, catalog, etc.) date, pages(s), volume-issue number(s), publisher, city and/or country where published).

- 1) GANZORIG. C. et al, "Improved drive voltages of organic electroluminescent devices with an efficient p-type aromatic diamine hole-injection layer," Applied Physics Letters, vol. 77, no. 25, pp. 4211-4213, (December 18, 2000).
- 2) ENDO, J. et al, "Organic Electroluminescent Devices with a Vacuum-Deposited Lewis-Acid-Doped Hole-Injecting Layer," Japanese Journal of Applied Physics, vol. 41, pp. L358-L360, (2002).
- 3) NAKADA, T. et al, "Multi Photon Emission Organic EL Devices using Charge-Transfer Complex as Charge Generation Layer," Proceedings of the Lecture Meeting of the Union Allied with the Japan Society of Applied Physics, The 63<sup>rd</sup> Autumn meeting, p. 1165, (September 24, 2002); with full English translation.
- 4) LIAO, L.S. et al, "High-efficiency tandem organic light-emitting diodes," Applied Physics Letters, vol. 84, no. 2, pp. 167-169, (January 12, 2004).
- 5) TSUTSUI, T. et al, "Electric field-assisted bipolar charge spouting in organic thin-film diodes," Applied Physics Letters, vol. 84, no. 3, pp. 440-442, (January 19, 2004).
- 6) International Search Report re application no. PCT/JP2005/009313, dated September 13, 2005.
- 7) Written Opinion re application no. PCT/JP2005/009313, dated September 13, 2005.

EXAMINER:

DATE CONSIDERED:

\*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP form. Draw line through citation if not in conformance and not considered. Include a copy of this form with the next communication to applicant.